WORKSHEET W-3 2005 **BMP Farm Unit NO.** Differential or DWR WELL REGISTRATION NO. LOCATION 5 Date of Discharge Velocity Head Cubic Ft. Sec. Q Q Q Twn Rng (Gals/Min) Measurement (Specify Units) TYPE OF MEASURING DEVICE MAKE/MODEL 2 A MINIMUM OF TWO **TOTALS** MEASUREMENTS INSTALLATION OR OVERHAUL DATE IS REQUIRED **AVERAGE** 8 AVERAGE CUBIC 6 POWER CO. NAME ACCOUNT NO GAS METER NO 3 DISCHARGE FACTOR F FACTOR C 10 ENERGY CONSUMPTION INSIDE DIAMETER OF DISCHARGE PIPE 11 GROUNDWATER WITHDRAWN = ACRE FEET DWR WELL REGISTRATION NO. LOCATION 5 Date of Discharge Velocity Head Cubic Ft. Sec. Q Q Rng Q Twn Sec Measurement (Gals/Min) (Specify Units) TYPE OF MEASURING DEVICE MAKE/MODEL 2 A MINIMUM OF TWO MEASUREMENTS **TOTALS** NSTALLATION OR OVERHAUL DATE IS REQUIRED **AVERAGE** 8 AVERAGE CUBIC 6 POWER CO. NAME ACCOUNT NO. GAS METER NO. DISCHARGE FT. SEC. 3 FACTOR F FACTOR C 10 ENERGY CONSUMPTION INSIDE DIAMETER OF 4 DISCHARGE PIPE (inches) [11] GROUNDWATER WITHDRAWN = ACRE FEET DWR WELL REGISTRATION NO. LOCATION 10 40 160 5 Date of Discharge Velocity Head Cubic Ft. Sec. Q Q Q Twn Rng Measurement (Gals/Min) (Specify Units) TYPE OF MEASURING DEVICE 2 A MINIMUM OF TWO **TOTALS** MEASUREMENTS NSTALLATION OR OVERHAUL DATE IS REQUIRED 8 AVERAGE CUBIC AVERAGE 6 POWER CO. NAME ACCOUNT NO. GAS METER NO. DISCHARGE FT. SEC. 3 FACTOR B FACTOR F FACTOR C 10 ENERGY CONSUMPTION INSIDE DIAMETER OF 4 DISCHARGE PIPE (inches) 11 GROUNDWATER WITHDRAWN = ACRE FEET Differential or DWR WELL REGISTRATION NO. LOCATION 10 40 160 5 1 Date of Discharge Velocity Head Cubic Ft. Sec. Q Q Q Twn Rng Measurement (Gals/Min) TYPE OF MEASURING DEVICE MAKE/MODEL 2 A MINIMUM OF TWO **TOTALS MEASUREMENTS** SIZE INSTALLATION OR OVERHAUL DATE IS REQUIRED 8 AVERAGE CUBIC **AVERAGE** 6 POWER CO. NAME GAS METER NO. ACCOUNT NO. DISCHARGE FACTOR B FACTOR F FACTOR C 10 ENERGY 9 DIVIDER = 195500 X FXC B = CONSUMPTION INSIDE DIAMETER OF DISCHARGE PIPE (inches) 11 GROUNDWATER WITHDRAWN =

GROUNDWATER RIGHT/PERMIT/

ACRE FEET

Note: This method cannot be used when energy meter serves other uses.

PIPE FLOW WITH PUMPAGE CALCULATED USING NATURAL GAS ENERGY RECORDS

	NATURAL GAS ENERGY RECORDS
INSTRUCTIONS	
Note	e: If any information pre-printed on this form is incorrect, please make the needed corrections. For that information not already preprinted on this form, please follow the directions below.
1.	Enter DWR well registration number and location in 1.
2.	If the meter has been changed during the reporting year, enter type, make, model and size of measuring device used to measure discharge in 2. If the device is permanent, enter date installed or last overhauled.
3.	Enter power company name, account number and meter number in 3.
4.	Enter the inside diameter of the well discharge pipe (inches) in 4.
5.	Enter the following information in 5: the date of measurement, differential or velocity head of the pipe flow, Factor F for the meter as shown on your power bill, the pump discharge, and the cubic feet per second of the gas meter, for each measurement taken. A minimum of two measurements are required. These measurements should be taken during the spring and in late summer if possible. Measuring more often produces more accurate results. It is desirable to operate the pump at least 24 hours before measuring the discharge.
6.	Add the values in the pump discharge column and divide by the number of measurements to obtain the average discharge which is designated as Factor B. Enter in 6.
7.	Repeat the same procedure for the F column to obtain the average for F which is designated as Factor F. Enter in 7.
8.	Repeat the same procedure for the cubic ft./sec. column to obtain the average cubic feet per second of gas which is designated as Factor C. Enter in 8.
9.	Enter Factor F, Factor B, and Factor C in the formula provided. Complete the calculation as shown to obtain the divider. Enter in 9.
10.	Enter the total energy consumption used in therms. This amount may be obtained from your natural gas energy bills as well as the initial and ending readings from your meter. Enter in 10.
11.	Divide the total energy consumption entered in 0 by the value computed in 0 obtain the total groundwater withdrawn by the well. Enter in 11.
ENTER THE FOLLOWING ON SCHEDULE A OR PART 1 OF SCHEDULE A-GSF	
WORKSHEET W-3 SCHEDULE A	
Bo Bo	